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61-10699

Trans. of unidentified mono. (lecture) from Meeting of the Northeast branch of the Japanese Chemical Society (no. 49) June 59.

When a substitution reaction reaches the benzene ring in compounds of the indole system, this appears usually in the 5 or 6 position, but the reaction is largely influenced by radicals other than the existing substitution radicals. As reported previously, 3-bromoindole-2-carboxylic acid ethyl forms 3,5-dibromoindole-2-carboxylic acid ethyl from bromine; the present report deals with the formation of 3,6-dichloroindole-2-carboxylic acid ethyl by the substitution of 3-chloroindole-2-carboxylic acid ethyl for chlorine at position 6, through the action of phosphorus pentachloride. (Author)

61-10699

1. Phosphorus chlorides--
Chemical reactions
2. Indoles--Chemical
reactions
3. Carboxylic acids--
Chemical reactions

- I. Kusato, M.
- II. Title: Studies...
- III. Title: Meeting...

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(Materials--Plastics, TT, v. 10, no. 5)

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pounds, *Oxides, Reduction, Thermodynamics,
*Chemical equilibrium, Carbides, *Oxygen, *Carbon,
Carbox compounds, Monoxides.

For abstract see Technical Translations S: 488, 1962.

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CARRYING OUT THE FUNCTIONS OF MANY
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3 refs. [DSIR LLU] M. 2351.
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An electronic mechanism for time control is described
which replaces any number of successively arranged
time relays with adjustable or independent timing.

1. Control systems--Design
 2. Foundries--Operation
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Control systems
- I. Kushch, K. M.
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(Machinery--Manufacturing, TT, v. 5, no. 12)

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DESCRIPTORS: *Copper, *Ores, Processing,
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DESCRIPTORS: *Chickens, *Genetics.

(Biological Sciences--Zoology, TT, v. 6, no. 1)

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